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Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=10; day=30; hr=15; min=29; sec=17; ms=198;
]

=====

Reviewer Comments:

<210> 53

<211> 17

<212> RNA

<213> Artificial Sequence

<220>

<223> 5' end flanking sequence

<400> 53

agcucgaccu cagaucu

17

The above <223> response: please try to give more information regarding the source of the genetic material. This type of response also appears in subsequent sequences.

<210> 83

<211> 38

<212> RNA

<213> Artificial Sequence

<220>

<223> synthetically generated sequence

<221> misc_feature

<222> (1)...(38)

<223> n = A,T,C or G

<400> 83

nnnnnnnnncu gaugaguccg ugaggacgaa annnnnnnn

38

Since the above <212> response is "RNA," "n" cannot represent "T"; it can only represent "U."

(end of Sequence 85)

atTTTgggtt acacatttac aagcaactta tataataata ctaa

7904

1

Please remove the "1" above, which appears at the end of the submitted file.

Application No: 10519122 Version No: 2.0

Input Set:**Output Set:**

Started: 2008-10-28 15:21:21.722
Finished: 2008-10-28 15:21:23.716
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 994 ms
Total Warnings: 85
Total Errors: 2
No. of SeqIDs Defined: 85
Actual SeqID Count: 85

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2008-10-28 15:21:21.722
Finished: 2008-10-28 15:21:23.716
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 994 ms
Total Warnings: 85
Total Errors: 2
No. of SeqIDs Defined: 85
Actual SeqID Count: 85

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
W 402	Undefined organism found in <213> in SEQ ID (85)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (85)

SEQUENCE LISTING

<110> Clawson, Gary A.
 Pan, Wei-Hua
 Thiboutot, Diane
 Christensen, Neil

<120> METHODS AND MATERIALS FOR TREATING HUMAN
 PAPILLOMAVIRUS INFECTIONS

<130> 14017-008US1

<140> 10519122

<141> 2005-08-08

<150> PCT/US03/20340

<151> 2003-06-26

<150> US 60/449,066

<151> 2003-02-21

<150> US 60/417,997

<151> 2002-10-14

<150> US 60/391,795

<151> 2002-06-26

<160> 85

<170> FastSEQ for Windows Version 4.0

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<212> DNA

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caggaaacag ctatgac

17

<210> 2

<211> 17

<212> DNA

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<223> primer

<400> 2

tgtaaaacga cggccag

17

<210> 3

<211> 67

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 <213> Artificial Sequence

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 <221> misc_feature
 <222> (1)...(67)
 <223> n = A,T,C or G

 <400> 3
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 ttttaca 67

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 <220>
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ctttgaggat ccaacac 17

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tgggcactat agaggcc 17

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<400> 47
gtgcttttgt gtgtctg 17

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<400> 48
gcctctgcgt ttaggtg 17

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 agcaacgacc cttccac 17

<210> 50
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<221> misc_feature
 <222> 18
 <223> thymine is inverted

<400> 50
 agcaacgacc cttccact 18

<210> 51
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<220>
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<400> 51
 cugaugaguc cgugaggacg aaa 23

<210> 52
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<220>
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<400> 52
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<210> 53
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 <212> RNA
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<220>
 <223> 5' end flanking sequence

<400> 53
 agcucgaccu cagaucu 17

<210> 54
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<212> RNA
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 <220>
 <223> 3' end flanking sequence

 <400> 54
 caauugaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaguc 39

 <210> 55
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 <212> RNA
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 <220>
 <223> 5' end flanking sequence

 <400> 55
 gguuccagga ucc 13

 <210> 56
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 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> 3' end flanking sequence

 <400> 56
 gaauucaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaguc 39

 <210> 57
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 <220>
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 <400> 57
 ccacaccuga ugaguccgug aggacgaaac cuuuaggu 38

 <210> 58
 <211> 38
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> target sequence

 <400> 58
 caaaaucuga ugaguccgug aggacgaaaa agugucua 38

 <210> 59
 <211> 38
 <212> RNA
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<220>
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<400> 59
 agcaaccuga ugaguccgug aggacgaaac ccuuccac 38

<210> 60
 <211> 76
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 <213> Artificial Sequence

<220>
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<400> 60
 agcaaccuga ugaguccgug aggacgaaac ccuuccaccc acaccugaug aguccgugag 60
 gacgaaaaaag tgtcta 76

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<220>
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 gacgaaaaaag ugucua 76

<210> 62
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 <212> RNA
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<220>
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 agcaaccuga ugaguccgug aggacgaaac ccuuccacag caaccugaug aguccgugag 60
 gacgaaaccc uuccac 76

<210> 63
 <211> 94
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<220>
 <223> target sequence

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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aguc 94

<210> 64
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<212> RNA
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<220>
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 aaaaaaaaaag uc 132

<210> 65
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> target sequence

<400> 65
 gttgcagagg ctagctacaa cgagtggagg c 31

<210> 66
 <211> 31
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<400> 66
 ctatttcagg ctagctacaa cgaacaacgg c 31

<210> 67
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<220>
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<400> 67
 agcaacgagg ctagctacaa cgaccttcca c 31

<210> 68
 <211> 15
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<220>
 <223> catalytic core sequence

<400> 68
 ggctagctac aacga 15

<210> 69
 <211> 31

<212> DNA
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 <220>
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 <400> 69
 agcaacgagc ctagctacta cgaccttcca c 31

 <210> 70
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 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> target sequence

 <400> 70
 tccgaagagg ctagctacaa cgagacaaga t 31

 <210> 71
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> target sequence

 <400> 71
 tccgaagagc ctagctacta cgagacaaga t 31

 <210> 72
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> probe

 <400> 72
 ctttcccttt gcagcgtgtg cctgt 25

 <210> 73
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> primer

 <400> 73
 ctggaaaacc caacttctgt acaa 24

 <210> 74
 <211> 21
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 <213> Artificial Sequence

<220>

<223> primer

<400> 74

accacggcac tgattttcag t

21

<210> 75

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> probe

<400> 75

tgtgcacagg agccaagagt gaaga

25

<210> 76

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

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<400> 76

His Gly Arg Leu Val Thr Leu Lys Asp Ile Val Leu Asp Leu Gln Pro

1 5 10 15

Cys

<210> 77

<211> 17

<212> PRT

<213> Artificial Sequence

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<400> 77

Met Glu Ser Lys Asp Ala Ser Thr Ser Ala Thr Ser Ile Asp Gln Leu

1 5 10 15

Cys

<210> 78

<211> 17

<212> PRT

<213> Artificial Sequence

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<223> synthetically generated polypeptide

<400> 78

Leu Glu Leu Gln Gly Lys Ile Asn Gln Tyr Arg His Phe Asn Tyr Ala

1 5 10 15

Cys

<210> 79

<211> 17

<212> DNA

<213> Artificial Sequence

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<223> exemplary sequence

<400> 79

tgtaaaacga cggccag

17

<210> 80

<211> 67

<212> DNA

<213> Artificial Sequence

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<221> misc_feature

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<223> n = A,T,C or G

<400> 80

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60

67

<210> 81

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> exemplary sequence (5' end)

<400> 81

aaaaaaaaaa aaaaaaa

17

<210> 82

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> exemplary sequence (3' end)

<400> 82

tgtaaaacga cggccag

17

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 <223> n = A,T,C or G

<400> 83
 nnnnnnnncu gaugaguccg ugaggacgaa annnnnnn

38

<210> 84
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<221> misc_feature
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 <223> n = A,T,C or G

<400> 84
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31

<210> 85
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 <212> DNA
 <213> Human papilloma virus 16

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 ggagcgaccc agaaagttac cacagttatg cacagagctg caaacaacta tacatgatat 180
 aatattagaa tgtgtgtact gcaagcaaca gtactgcga cgtgaggat atgactttgc 240
 ttttcgggat ttatgcatag tatatagaga tgggaatcca tatgctgtat gtgataaatg 300
 tttaaagttt tattctaaaa ttagtgagta tagacattat tgttatagtt tgtatggaac 360
 aacattagaa cagcaataca acaaaccgtt gtgtgatttg ttaattaggt gtattaactg 420
 tcaaaagcca ctgtgtcctg aagaaaagca aagacatctg gacaaaaagc aaagattcca 480
 taatataagg ggtcgggtgga ccggtcgatg tatgtcttgt tgcagatcat caagaacacg 540
 tagagaaacc cagctgtaat catgcatgga gatacaccta cattgcatga atatatgtta 600
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 gaggaggatg aaatagatgg tccagctgga caagcagaac cggacagagc ccattacaat 720
 attgtaacct tttgttgcaa gtgtgactct acgcttcggg tgtgcgtaca aagcacacac 780
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